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3	L3	copeland.in. and scott.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:43	19

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4	L4	L2 and L3	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:43	3
5	L5	L4 and L1	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	0
6	L6	726/16.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	150

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7	L7	713/164.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	357
8	L8	713/166.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	352
9	L9	713/168.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	1447

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10	L10	713/176.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	1968
11	L11	713/187.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	270
12	L12	709/223.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	5024

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13	L13	709/224.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	5273
14	L14	709/225.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:44	2445
15	L15	717/120.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:45	466

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	(single or standalone) near (computer) adj (PC or personal computer)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:45	20
17	L17	isolat\$3 same (malicious or virus) wth download\$3	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:46	222239
18	L18	isolat\$3 same (malicious or virus) with download\$3	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:46	29

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	isolat\$3 same (malicious or virus) with download\$3 adn (security kernel)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:46	371172
20	L20	isolat\$3 same (malicious or virus) with download\$3 and (security kernel)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:46	19
21	L21	L20 and L16	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:47	0

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	L19 and (limit\$3 communication)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:47	233653
23	L23	L20 and (limit\$3 communication)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:47	18
24	L24	L23 and security kernel	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:48	48583

	L #	Search Text	DBs	Time Stamp	Hits
25	L25	L23 and "security kernel"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:48	0
26	L26	L23 and "kernel"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:48	6
27	L27	L26 and "intrusion detection"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/09/02 22:48	0

	L #	Search Text	DBs	Time Stamp	Hits
28	L28	L16 and "intrusion detection"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:49	0
29	L29	L20 and "intrusion"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:49	5
30	L30	L29 and "isolated"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2006/09/02 22:49	3

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Relevance scale 1 [Ubiquitous computing/security: Securing nomads: the case for quarantine,](#) [examination, and decontamination](#)

Kevin Eustice, Leonard Kleinrock, Shane Markstrum, Gerald Popek, V. Ramakrishna, Peter Reiher

August 2003 **Proceedings of the 2003 workshop on New security paradigms**

Publisher: ACM Press

Full text available:  [pdf\(693.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid growth and increasing pervasiveness of wireless networks raises serious security concerns. Client devices will migrate between numerous diverse wireless environments, bringing with them software vulnerabilities and possibly malicious code. Techniques are needed to protect wireless client devices and the next generation wireless infrastructure. We propose QED, a new security model for wireless networks that enables wireless environments to quarantine devices and then analyze and potenti ...

Keywords: decontamination, examination, mobile computing, nomadic computing, pervasive computing, quarantine, security, ubiquitous computing, wireless, worm

2 [Security and reliability: A feather-weight virtual machine for windows applications](#) [Yang Yu, Fanglu Guo, Susanta Nanda, Lap-chung Lam, Tzi-cker Chiueh](#)June 2006 **Proceedings of the 2nd international conference on Virtual execution environments VEE '06**

Publisher: ACM Press

Full text available:  [pdf\(192.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many fault-tolerant and intrusion-tolerant systems require the ability to execute unsafe programs in a realistic environment without leaving permanent damages. Virtual machine technology meets this requirement perfectly because it provides an execution environment that is both realistic and isolated. In this paper, we introduce an OS level virtual machine architecture for Windows applications called *Feather-weight Virtual Machine* (FVM), under which virtual machines share as many resources ...

Keywords: copy on write, mobile code security, namespace virtualization, system call interception, virtual machine

3 Security as a new dimension in embedded system design: Security as a new dimension in embedded system design

 Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan
June 2004 **Proceedings of the 41st annual conference on Design automation**

Publisher: ACM Press

Full text available:  [pdf\(209.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The growing number of instances of breaches in information security in the last few years has created a compelling case for efforts towards secure electronic systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and access data of a sensitive nature, pose several unique and interesting security challenges. Security has been the subject of intensive research in the areas of cryptography, computing, and networking. However, despite these efforts, *security is ...*

Keywords: PDAs, architectures, battery life, cryptography, design, design methodologies, digital rights management, embedded systems, performance, security, security processing, security protocols, sensors, software attacks, tamper resistance, trusted computing, viruses

4 Improving the granularity of access control for Windows 2000

 Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory Jensenworth
November 2002 **ACM Transactions on Information and System Security (TISSEC)**,
Volume 5 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(447.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

5 Structuring secure systems: A microkernel virtual machine:: building security with clear interfaces

 Xiaoqi Lu, Scott F. Smith
June 2006 **Proceedings of the 2006 workshop on Programming languages and analysis for security PLAS '06**

Publisher: ACM Press

Full text available:  [pdf\(544.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we propose a novel microkernel-based virtual machine (μ KVM), a new code-based security framework with a simple and declarative security architecture. The main design goals of the μ KVM are to put a clear, inviolable programming interface between different codebases or security components, and to limit the size of the trusted codebase in the spirit of a microkernel. Security policies are enforced solely on the interface because all data must explicitly pass through the invi ...

Keywords: Java, access control, frameworks, interface, kernel, language-based security, virtual machine

6 Digest of proceedings seventh IEEE workshop on hot topics in operating systems



⌚ March 29-30 1999, Rio Rico, AZ

M. Satyanarayanan

October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Seventh IEEE Workshop on Hot Topics in Operating Systems was held on March 29-30 1999 at the Rio Rico Resort & Country Club, south of Tucson, Arizona. The General Chair, Peter Druschel, and the Local Arrangements Chair, John Hartman, had gone to considerable effort to make the operation of the workshop smooth and pleasant for the participants. The secluded desert locale, the effect of brilliant sunshine and blue skies on winter-jaded northerners, and the enthusiasm and energy of the ...

7 Report on the seventh ACM SIGOPS European workshop: systems support for



⌚ worldwide applications

Andrew S. Tanenbaum

January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: [pdf\(923.32 KB\)](#) Additional Information: [full citation](#), [index terms](#)

8 Are handheld viruses a significant threat?



⌚ Simon N. Foley, Robert Dumigan

January 2001 **Communications of the ACM**, Volume 44 Issue 1

Publisher: ACM Press

Full text available: [pdf\(119.80 KB\)](#) [html\(17.24 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

9 Invited papers on the frontiers of software practice: Cybersecurity



Richard A. Kemmerer

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: [pdf\(1.17 MB\)](#) [html](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
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As more business activities are being automated and an increasing number of computers are being used to store sensitive information, the need for secure computer systems becomes more apparent. This need is even more apparent as systems and applications are being distributed and accessed via an insecure network, such as the Internet. The Internet itself has become critical for governments, companies, financial institutions, and millions of everyday users. Networks of computers support a multitude ...

10 Q focus: patch and deploy: Understanding software patching



⌚ Joseph Dadzie

March 2005 **Queue**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: [pdf\(302.51 KB\)](#) [html\(27.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Developing and deploying patches is an increasingly important part of the software development process.

11 Secure Embedded Processing through Hardware-Assisted Run-Time Monitoring



Divya Arora, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha

March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '05**

Publisher: IEEE Computer Society

Full text available: [pdf\(222.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Security is emerging as an important concern in embedded system design. The security of embedded systems is often compromised due to vulnerabilities in "trusted" software that they execute. Security attacks exploit these vulnerabilities to trigger unintended program behavior, such as the leakage of sensitive data or the execution of malicious code. In this work, we present a hardware-assisted paradigm to enhance embedded system security by detecting and preventing unintended program behavior. Sp ...

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